REMARKS

Applicant respectfully requests reconsideration and allowance of the subject application. Claim 11 has been canceled. Claims 1-10 and 12-42 are pending, of which claims 12 and 32 have been amended. The claims are addressed below in the order in which they were addressed in the Office Action.

35 U.S.C. § 102

(4)

Claims 1-2, 4-6, 8, 10-12, 32-33, 35-38, and 40-41 are rejected under 35 U.S.C. § 102(b) as being anticipated by Kohashi (EP O 723367 A2) (hereinafter, "Kohashi"). Applicant respectfully traverses the rejection.

Claim 1 defines a television tuner comprising "a country table listing a plurality of countries," and "multiple channel-to-frequency mapping tables correlating channel numbers to corresponding frequencies for associated countries in the country table, the channel-to-frequency mapping tables being indexed by the country table so that selection of a country in the country table references an associated channel-to-frequency mapping table for the selected country." Claim 5 recites similar features.

Kohashi does not disclose these features. Kohashi describes a television channel selection apparatus that includes a table relating channel numbers to frequencies, a table relating broadcasting station codes to stations names, a table relating countries (or languages) and preferential orders of video formats, a table relating the formats and search times, and a table relating positions with channels and broadcasting station codes. (See Col. 8, lines 20-56). Nowhere, however, does Kohashi disclose "channel-to-frequency mapping tables being indexed by the

 country table so that selection of a country in the country table references an associated channel-to-frequency mapping table for the selected country" as required by claims 1 and 5.

The Office argues that Fig. 11c in Kohashi shows the channel-to-frequency tables. Applicant disagrees. Notice that Fig. 11c contains no reference to "frequency" or "frequencies," but instead shows a table correlating order, broadcasting station codes, and guide channels. There is no correlation of channels and frequency in Fig. 11c.

The Office further cites Fig. 2c of Kohashi as showing the claimed indexing relationship between the country table and the channel-to-frequency tables. Applicant disagrees. First, it is respectfully noted that neither Fig. 2c nor its description, contains any reference to "frequency". The description of Fig. 2c (Col. 8 lines 40-43) states that the table of Fig. 2c provides "a relationship between countries or languages and preferential orders of formats to be searched is stored in advance." Nowhere in Fig. 2c or the accompanying text is there any discussion of how a country table is used to index into a channel-to-frequency mapping table as Applicant claims.

The Office further cites Fig. 12 and Col. 8 lines 20-55+ as disclosing this indexing relationship. Once again, Applicant respectfully disagrees. First, column 8 contains the text describing the various tables shown in Figs. 2a-2e, which are discussed above. As already noted, none of the tables in Figs. 2a-2e shows a "channel-to-frequency mapping tables being indexed by the country table so that selection of a country in the country table references an associated channel-to-frequency mapping table for the selected country" as required by claims 1 and 5.

Secondly, Fig. 12 shows part of a flow chart illustrating automatic channel presetting and guide channel setting operation of the video cassette recorder of Fig. 10. Following the flow chart in Fig. 12, after selection of a country at step S44, there is a decision as to whether the channels are to be automatically or manually at step S45. If automatically is chosen, the process runs through a series of steps in Figs. 12, 4, and 5, including setting a minimum channel (S46 of Fig. 12), checking for a maximum channel and current position (S47-S48 of Fig. 12), selecting a designated channel (S10 of Fig. 4), storing selected channel data (S13 of Fig. 4), searching for preferential order format (S15 of Fig. 4), evaluating for broadcasting code (Fig. 5), and so on. Nowhere in the discussion of the flow charts spanning several figures does Kohashi describe simply, "the channel-to-frequency mapping tables being indexed by the country table so that selection of a country in the country table references an associated channel-to-frequency mapping table for the selected country."

For these reasons, Kohashi does not disclose the invention of claims 1 and 5. Applicant respectfully requests that the §102 rejection of claims 1 and 5 be withdrawn.

Claims 2 and 6 depend from claim 1 and 5 respectively, and are allowable by virtue of this dependency. Moreover, these claims recite features that, taken together with those of claim 1 and 5, define a country organization code system, which is not shown by Kohashi.

Claims 2 and 6 include all of the elements of claims 1 and 5 and require "wherein the country table lists the countries according to a uniquely assigned country code." Kohashi does not disclose this feature. The Office cites Kohashi,

 Fig. 2c as disclosing this feature.. Applicant respectfully points out that Kohashi Fig. 2c discloses a "COUNTRY (LANGUAGE) / PREFERENTIAL [FORMAT] ORDER." Fig 2c is silent as to a "uniquely assigned country code". Furthermore, it could not even be improvised to work as the Office suggests since Fig. 2c shows the first three countries listed (Germany, Switzerland, and Austria) as having identical preferential orders (VPS→8/30/F1→PDC). With different countries sharing identical preferential format orders, these orders cannot qualify as being codes that are "uniquely assigned" to each country.

For these reasons, Kohashi does not disclose the invention of claims 2 and 6. Applicant respectfully requests that the §102 rejection of claims 2 and 6 be withdrawn.

Claims 4 and 8 depend from claim 1 and 5 respectively, and are allowable by virtue of this dependency. Moreover, these claims recite features that, taken together with those of claim 1 and 5, define features not disclosed in Kohashi.

Claim 10 depends from claim 5 and is allowable by virtue of this dependency. Moreover, this claim recites features that, taken together with those of claim 5, define features not disclosed in Kohashi.

Claim 11 has been cancelled without prejudice.

Claim 12 has been amended to incorporate all of the elements of independent claim 11 from which it depended. Claim 12 includes "a tuner module coupled to adjust the tuner circuitry to scan multiple channels within a particular

locale for corresponding tuning frequencies, the tuner module storing the tuning frequencies for the particular locale" so that "upon transporting the tuner to a new locale, the tuner module scans multiple channels within the new locale for corresponding tuning frequencies" and "upon transporting the tuner back to the particular locale, the tuner module retrieves the stored tuning frequencies to restore operation in the particular locale." Kohashi is silent as to a tuner module that "retrieves the stored tuning frequencies to restore operation in the particular locale" upon "transporting the tuner back to the particular local." Therefore, Kohashi does not disclose the invention of claim 12. Applicant respectfully requests that the §102 rejection of claim 12 be withdrawn.

Claim 32 stands rejected based on the reasoning applied to claims 1 and 5. Please reference the discussion of claims 1 and 5 above. With respect to claim 32,

Kohashi does not disclose "selecting, based on the country reference, a set of channel-to-frequency mappings correlating channels to corresponding TV frequencies in the country." Therefore, Applicant respectfully requests the

rejection be withdrawn.

Claim 33 is referenced to the rejection of claim 2 in the office action. It is respectfully noted that claim 2 involves a limitation regarding "a uniquely assigned country code," and is not analogous to claim 33, which contains no such limitation. Claim 33 depends from claim 32 and is allowable as a result of this dependency. Accordingly, it is respectfully requested that the §102 rejection of claim 33 be withdrawn.

Claim 35 depends from claim 32 and is allowable by virtue of its dependency on allowable claim 32. Applicant respectfully requests the §102 rejection of claim 35 be withdrawn.

Claim 36 depends from allowable claim 32 and is allowable as a result of this dependency. Moreover, this claim recites features that, taken together with those of claim 32, define features not disclosed in Kohashi. Specifically Kohashi does not disclose, "scanning for a better quality frequency within the channel." The Office cites Col.15, line 53- Col. 16 line 36 for support of this feature. However, it is respectfully noted that the cited excerpt discloses choosing the most preferred broadcasting station code format for a given guide channel, not scanning for a "better quality frequency within the channel" as Applicant claims. Therefore, Kohashi does not disclose the invention of claim 36 and the §102 rejection of claim 36 should be withdrawn.

Claim 37 depends from claim 32 and is allowable as a result of this dependency. Claim 37 further requires "looking up the country in a country table that lists multiple countries" and "indexing from an entry for the country in the country table to a particular channel-to-frequency table, the particular channel-to-frequency table containing mappings of channel numbers to TV frequencies for the country." For the reasons argued above with respect to claims 1 and 5, Kohashi does not disclose indexing from an entry for the country in the country table to a particular channel-to-frequency table, as Applicant claims. Accordingly, the §102 rejection of claim 37 should be withdrawn.

Claim 38 depends from claim 37 and is allowable by virtue of this dependency. Claim 38 further recites "looking up in the particular channel-to-frequency table a TV frequency that corresponds to the channel." Kohashi does not disclose this element in combination with the elements incorporated in the base claims 32 and 37. For these reasons, applicant respectfully requests that the §102 rejection of claim 38 be withdrawn.

Claim 40 requires "configuring a tuning system for operation in a first locale by determining tuning frequencies for an associated set of channels", "storing the tuning frequencies for the first locale", "upon transporting the tuning system to a second locale, reconfiguring the tuning system for operation in the second locale" and "upon transporting the tuning system back to the first locale, retrieving the stored tuning frequencies to restore operation in the first locale." For the reasons given above with respect to claim 12, Kohashi does not disclose storing the tuning frequencies for the first locale so that upon transporting the tuning system back to the first locale these stored tuning frequencies can be retrieved to restore operation in the first locale. The §102 rejection of claim 40 should be withdrawn.

Claim 41 depends from claim 40 and further requires "scanning for optimal tuning frequencies for the associated set of channels." As noted above with respect to claim 36, Kohashi does not disclose scanning for "optimal tuning frequencies for the associated set of channels." Thus, claim 41 should be in condition for allowance.

35 U.S.C. § 103

Claims 3, 7, 27-30, and 34

Claims 3, 7, 27-30, and 34 are rejected under 35 U.S.C. § 103(a) as being unpatentable over Kohashi. Applicant respectfully traverses the rejection.

Claim 3 depends from claim 1 and hence incorporates the features of claim 1. As such, claim 3 requires "multiple channel-to-frequency mapping tables correlating channel numbers to corresponding frequencies for associated countries in the country table, the channel-to-frequency mapping tables being indexed by the country table so that selection of a country in the country table references an associated channel-to-frequency mapping table for the selected country." Claim 3 further specifies, "the country table lists the countries according to an ITU."

Kohashi provides no disclosure, teaching or suggestion of multiple channel-to-frequency mapping tables being indexed by a country table so that selection of a country in the country table references an associated channel-to-frequency mapping table for the selected country.

The Office takes Official Notice of the ITU standard as providing a table to identify each country. However, the ITU standard provides no teaching or suggestion of the "channel-to-frequency mapping tables being indexed by the country table so that selection of a country in the country table references an associated channel-to-frequency mapping table for the selected country" as required by claims 1 and 3. Hence, the Official Notice provides no teaching of the missing element in Kohashi.

Accordingly, combining the references provides no suggestion of the claimed invention. Therefore, it is respectfully requested that the §103 rejection of claim 3 be withdrawn.

Claim 7 depends from claim 5 and hence incorporates the features of claim 5. As such, claim 7 requires "multiple channel-to-frequency mapping tables correlating channel numbers to corresponding frequencies for associated countries in the country table, the channel-to-frequency mapping tables being indexed by the country table so that selection of a country in the country table references an associated channel-to-frequency mapping table for the selected country." Claim 7 further specifies, "the country table lists the countries according to an ITU." For the reasons argued above with respect to claim 3, Kohashi combined with Official Notice of the ITU does not teach or suggest the features of claim 7. Therefore, it is respectfully requested that the §103 rejection of claim 7 be withdrawn.

Claim 27 defines an application program interface for a television tuning system. The API has methods for performing a number of specific functions. Claim 27 then lists the functions:

retrieving all analog video TV standards supported by the tuning system; retrieving a current analog video TV standard in use; setting a current TV channel;

retrieving the current TV channel;

retrieving highest and lowest channels available;

scanning for a precise signal on the current TV channel's frequency;

setting a country code;

retrieving the country code;

setting a storage index for regional channel to frequency mappings;

retrieving the storage index;

retrieving a number of TV sources plugged into the tuning system;

setting a type of tuning system;

retrieving the type of tuning system;

retrieving a current video frequency; and

retrieving a current audio frequency.

Kohashi is a hardware based solution to a television tuning system. This is illustrated by Kohashi Fig. 1 which describes hardware components and memory. As such, Kohashi would not have contemplated a software tuning solution. Since the inherent purpose of an API is to interface between software and other components or programs, Kohashi, lacking software, wouldn't have contemplated an API. Thus, Kohashi could not even begin to teach a specific API for the television tuning system as claimed in claim 27.

The Office generally argues that Kohashi discloses methods for performing the functions recited in claim 27. Applicant disagrees. While the cited reference cumulatively discloses a hardware circuit that may set a TV channel, it does not disclose an API with various methods that may be called by a software application to perform the various functions.

For these reasons, claim 27 is allowable over the cited prior art combination, and it is respectfully requested that the §103 rejection be withdrawn.

Claim 28 defines a method that includes "receiving an ITU code for a particular country; and selecting, based on the ITU code, a set of TV channel-to-TV frequency mappings for use in the particular country." Kohashi describes a system of choosing preferential broadcasting station codes by prioritizing different formats, and then finding stations based on that preference. Kohashi does not describe, teach, or suggest "selecting, based on the ITU code, a set of TV channel-to-TV frequency mappings for use in the particular country." As described above, though Official Notice was taken of the existence of the ITU, no art teaching or suggesting the claimed features has been cited regarding selecting a set of TV channel-to-TV frequency mappings using an ITU. Therefore, taking Official Notice along with the Kohashi reference still falls short of the elements of claim 28. For these reasons, claim 28 is allowable, and it is respectfully requested that the §103 rejection of claim 28 be withdrawn.

Claims 29 and 30 depend from claim 28 and hence incorporate the features of claim 28, as well as additional limitations. For these reasons, claims 29 and 30 are allowable over the cited prior art combination, and it is respectfully requested that the §103 rejection of claims 29 and 30 be withdrawn.

Claim 34 depends from claim 32. As such, claim 34 contains all of the features therein. Additionally, claim 34 recites additional features, which taken together with those of claim 32, define a method of carrying out the steps of claim 32, wherein the country reference is an ITU. For the reasons given above with respect to claim 28, claim 34 is allowable over Kohashi.

Claims 9, 13, 15, 16, 18 – 20, 22-24, 39 and 42

Claims 9, 13, 15-16, 18-20, 22-24, 39, and 42 are rejected under 35 U.S.C. § 103(a) as being unpatentable over Kohashi in view of U.S. Patent No. 5,355,162 to Yazolino et al. (hereinafter, "Yazolino"). Applicant respectfully traverses the rejection.

Claim 9 depends from claim 5 and hence incorporates the features of claim 5. As such, claim 9 requires "multiple channel-to-frequency mapping tables correlating channel numbers to corresponding frequencies for associated countries in the country table, the channel-to-frequency mapping tables being indexed by the country table so that selection of a country in the country table references an associated channel-to-frequency mapping table for the selected country." Claim 9 further specifies that the elements of claim 5 are "embodied in software as a dynamic linked library stored on a computer-readable storage medium."

Kohashi fails to teach, suggest, or disclose these features. The Office recognizes that Kohashi fails to teach the elements of claim 5 "embodied in software on a computer readable storage medium," as claim 9 requires, and hence cites Yazolino.

Yazolino discloses, a cable television system having a multiplicity of television program sources providing television signals in various predefined television signal formats. Col. 2 describes the system of Yazolino as comprising a television being controlled by an on/off switch, a tuner coupled to an input port, a wireless signal sensor and a decoder for receiving and decoding a first defined set of wireless command signals. The system has control programs, which allow it to ignore signals not included in a predefined set. The system further has a controller

which sends channel selection commands corresponding to user entries, to the tuner.

Yazolino further describes a system which uses a combination of hardware and software to display a list of various TV programs available to a cable TV viewer. It also provides notification if the viewer selects programs which are billed on a "pay-per-view" basis. The system monitors to ensure that the TV is in fact "on" and that the TV and the controller are on the same channel so that the viewer does not get billed inadvertently for something the viewer is not in fact watching. The system of Yazolino is basically a static system in that whatever signals are received from the cable line are displayed for the viewer and the viewer makes a selection. The system does not envision portability since it is a cable based, permanent system. Therefore, there would be no benefit for having a dynamic linked library to store information for various locales and which could be upgraded based on changes in standards in those various locales.

The Office cites Yazolino control programs 212, wireless command decoder program 150, and Table 1 as disclosing the elements of claim 9. Applicant respectfully disagrees. Table 1 is labeled "Control Software Pseudocode for Vertical Sync and SyncLock Monitoring." The purpose of Table 1, as described in Columns 9-13, is to check for a condition where the Converter box 104 and the television 120 are on different channels. The system of Yazolino uses control software 210 to monitor whether the TV is on and whether the signal on the TV matches the signal on the converter box. The mere fact that Yazolino uses software in no way suggest to one skilled in the art to build a system of channel-to-frequency mapping tables which are embodied in software as a dynamic link library on a computer readable storage medium and indexed by a country table as

1 | 2 | 3 | 4 | 5 | 6 | 7 |

required by claim 9. The system of Yazolino is designed for use with cable systems and as such the system is only designed to work with whatever signals come through the cable. Further, by definition cable is not portable and so the system would not teach or suggest any advantage of using a DLL which could be replaced or upgraded as a user moves to different locals where broadcast standards may have changed. As such Yazolino does not describe the system of claim 5, or the system of claim 5 "embodied in software as a dynamic linked library stored on a computer-readable storage medium" as required by claim 9.

The Office admits that the combination of Kohashi and Yazolino fails to teach or suggest the elements (of claim 5) "embodied in software as a dynamic linked library stored on a computer-readable storage medium" as required by claim 9. And hence, the Office took Official Notice that DLL is well known in the computer art under the Microsoft Windows environment. While applicant does not disagree that DLL is well known in the computer art, the Office has not cited any specific reference in the DLL art, nor any arguments, which teaches or suggests the elements of claim 5 from which claim 9 depends. Moreover, Applicant is not claiming a DLL, per se, but a specific television tuning component that is embodied in a DLL. Accordingly, combining the references, even assuming Official Notice of DLL's, provides no suggestion or teaching of the television tuning component of claim 9. Therefore, it is respectfully requested that the §103 rejection of claim 9 be withdrawn.

Claim 13 defines a television tuning system comprising:

tuner circuitry to tune to various television frequencies carrying television video signals;

video decoder circuitry coupled to receive a television video signal from the tuner circuitry and to convert the television video signal to digital video data;

a tuner module coupled to adjust the tuner circuitry to a particular television frequency;

a video decoder module to decode the digital video data according to a particular video standard;

wherein the tuner module has a country table listing a plurality of countries and multiple channel-to-frequency mapping tables that provide video standards and correlate channel numbers to corresponding frequencies for associated countries in the country table, the channel-to-frequency mapping tables being indexed by the country table so that selection of a country in the country table references an associated channel-to-frequency mapping table for the selected country; and

wherein the tuner module selects a channel-to-frequency mapping table based upon input of a particular country and outputs a video standard to the video decoder for use in decoding the digital video data, the tuner module further selecting a television frequency from the selected channel-to-frequency mapping table based upon input of a corresponding channel and outputting the selected television frequency to the tuner circuitry to cause the tuner circuitry to tune to the selected television frequency.

Neither Kohashi, nor Yazolino, teaches or suggests "the tuner module has a country table listing a plurality of countries and multiple channel-to-frequency mapping tables that provide video standards and correlate channel numbers to corresponding frequencies for associated countries in the country table," "the tuner module has a country table listing a plurality of countries and multiple channel-to-frequency mapping tables," or "the tuner module selects a channel-to-frequency mapping table based upon input of a particular country"

Moreover, as described previously, Kohashi is a hardware based solution to a television tuning system. This is illustrated by Kohashi Fig. 1, which shows all

identified components being circuits with the exception of a microprocessor to control the circuits and memory for the microprocessor. Thus, Kohashi teaches a fixed system, with hardware components and a microprocessor connected to the circuitry. The memory allows the input of the variables, which include frequencies, broadcasting station codes, broadcasting station names, etc. With this type of structure, there is no need for software components so Kohashi would not have contemplated the software based elements of the present invention, as described above.

The Office generally argues that Kohashi discloses the television tuning system recited in claim 13. Applicant disagrees. As described above, Kohashi discloses a hardware video signal detection circuit that may set a TV channel, it does not disclose, or teach the elements described above. This is evident from Kohashi Fig. 1 which is cited by the Office as disclosing claim 13.

The Office cites elements 2,3,5-11, and 15 as disclosing the elements of claim 13. Elements 2, 5, 6, and 15 are hardware circuits, element 3 is a microprocessor, elements 7-11 are memory for the microprocessor.

No software modules that control underlying and associated hardware components are disclosed in Kohashi. For example, claim 13 requires "a tuner module coupled to adjust the tuner circuitry to a particular television frequency, and a video decoder module to decode the digital video data according to a particular video standard." Kohashi lacks these elements.

Further, claim 13 requires, "the tuner module has a country table listing a plurality of countries and multiple channel-to-frequency mapping tables that provide video standards and correlate channel numbers to corresponding frequencies for associated countries in the country table, the channel-to-frequency

mapping tables being indexed by the country table so that selection of a country in the country table references an associated channel-to-frequency mapping table for the selected country." As discussed above, Kohashi does not teach or suggest these elements.

Yazolino is equally silent as to the elements of claim 13. As described above with respect to claim 9, Yazolino describes a cable-based system which is connected to a TV and to a cable. The cable is supplying TV programs and the system allows users to choose from the available programs. Since the system of Yazolino is basically a permanent fixed system, it would not have envisioned the various architectural layers recited in claim 13.

Claim 13 uses a modular concept where a module includes software to control specific hardware components to achieve a given functionality. For example, the tuner module implements the country code table and multiple channel-to-frequency mapping tables. In the event changes are made to broadcast television standards and channel frequencies within one or more countries, and as new countries are created, or old countries cease to exist the software for the module can be updated without affecting the remainder of the system. Yazolino lacks such a capability and does not teach or suggest the benefits thereof.

Neither Kohashi nor Yazolino teach or suggest the elements of claim 13. As such the combination fails to teach or suggest the elements of claim 13. For these reasons, claim 13 is allowable over the cited prior art, and it is respectfully requested that the §103 rejection be withdrawn.

Claim 15 depends from claim 13 and hence incorporates all features of claim 13. In addition to the elements of claim 13, claim 15 further describes the

tuner module to be a DLL. As discussed above, these features are not described, taught, or suggested in the prior art. Therefore, applicant respectfully requests that the §103 rejection of claim 15 be withdrawn.

Claim 16 depends from claim 13 and hence incorporates all features of claim 13. In addition to the elements of claim 13, claim 16 further describes "a second tuner module different from the tuner module, the second tuner module being used to replace the tuner module during upgrade without replacing the tuning circuitry and the decoding circuitry." These features are not described, taught, or suggested by the cited art. Therefore, applicant respectfully requests that the §103 rejection of claim 16 be withdrawn.

Claim 18 depends from claim 13 and thereby incorporates all the limitations of claim 13. Claim 18 further discloses "the tuner module stores a set of television frequencies that map to corresponding channels within the particular country for subsequent retrieval."

As described above, Kohashi and Yazolino do not teach or suggest the elements of claim 13. Further, they do not teach or suggest the further limitations of claim 18. Therefore, applicant respectfully requests that the §103 rejection of claim 18 be withdrawn.

Claim 19 defines,

A television tuning manager for a television tuner, the television tuning manager being implemented in software stored on a computer-readable storage medium, the television tuning device comprising:

a country table listing a plurality of countries;

multiple channel-to-frequency mapping tables correlating channel numbers to corresponding frequencies for associated countries in the country table, the channel-to-frequency mapping tables being indexed by the country table so that selection of a country in the country table references an associated channel-to-frequency mapping table for the selected country;

a code segment to select a channel-to-frequency mapping table based upon input of a particular country; and

a code segment to output a broadcast frequency from the selected channel-to-frequency mapping table based upon input of a corresponding channel.

Kohashi fails to teach or suggest the elements of claim 19 for two reasons: first, Kohashi does not teach or suggest "channel-to-frequency mapping tables being indexed by the country table so that selection of a country in the country table references an associated channel-to-frequency mapping table for the selected country," and second, Kohashi does not teach or suggest the use of the recited code segment. Yazolino is equally silent to these features. Therefore, the combination of Kohashi and Yazolino does not teach or suggest the invention of claim 19. For these reasons, it is respectfully requested that the §103 rejection of claim 19 be withdrawn.

 Claim 20 depends from claim 19 and incorporates all of the limitations therein. Additionally, claim 20 recites additional features that taken together with those of claim 19 define a television tuner manager not included in the cited references. Specifically, claim 20 includes all of the elements of claim 19 and the additional requirement that "the country table lists the countries according to a uniquely assigned country code."

Kohashi fails to teach or suggest the above elements. Yazolino is equally silent. Therefore, the combination of Kohashi and Yazolino does not teach or suggest the invention of claim 20. For these reasons, it is respectfully requested that the §103 rejection of claim 20 be withdrawn

Claim 22 depends from claim 19 and incorporates all of the limitations therein. Additionally, claim 22 recites additional features that taken together with those of claim 19 define a television tuner manager which is not taught or suggested in the cited references. Therefore, it is respectfully requested that the §103 rejection of claim 22 be withdrawn.

Claim 23 depends from claim 19 and is allowable by virtue of this dependency. Further, claim 23 requires "a code segment to store a set of broadcast frequencies that map to corresponding channels."

The combination of Kohashi and Yazolino fails to teach or suggest the above elements. The Office cites Kohashi Fig. 2C and Fig. 11C as disclosing the above elements. Applicant disagrees. As described previously Fig. 2c describes the "corresponding relationship between countries or languages and preferential orders of formats to be searched." (Column 12). Fig. 11C describes the

"corresponding relationship between broadcasting codes and guide channels of individual countries is stored together with preferential order numbers." (Column 12). It is thus apparent that Kohashi, alone or in combination with Yazolino, does not teach or suggest the invention of claim 23. For these reasons, it is respectfully requested that the §103 rejection of claim 23 be withdrawn

Claim 24 depends from claim 19. Further, claim 24 requires that the elements of claim 19 be "embodied as a software dynamic linked library stored on a computer-readable storage medium." For the reasons stated above with respect to claim 9, the cited combination, does not teach or suggest claim 24.

Claim 39 depends from claim 32. As such, claim 39 contains all of the limitations therein and is allowable by virtue of this dependency. For these reasons, it is respectfully requested that the §103 rejection of claim 39 be withdrawn.

Claim 42 depends from claim 40 and is allowable by virtue of this dependency. For these reasons, it is respectfully requested that the §103 rejection of claim 42 be withdrawn.

Claim 31

Claim 31 stands rejected under 35 USC §103(a) as being unpatentable over Kohashi in view of Yazolino. The Examiner also takes Official Notice regarding ITU and DLL. Applicant respectfully traverses the rejection.

Claim 31 depends from claim 28. As such claim 31 contains all of the limitations therein and is allowable by virtue of this dependency. Additionally, claim 31 recites additional features, which taken together with those of claim 28, define a computer-readable medium having computer-executable instructions for performing the steps in the method as recited in claim 28. For these reasons, it is respectfully requested that the §103 rejection of claim 31 be withdrawn

Claims 14 and 21

Claims 14 and 21 stand rejected under 35 USC §103(a) as being unpatentable over Kohashi in view of Yazolino. The Examiner also takes Official Notice regarding ITU and DLL. Applicant respectfully traverses the rejection.

Claims 14 and 21 depend from claim 13 and 19 respectively, and hence incorporate the features of claim 13 and 19. Claim 14 and 21 further specify that "the country table lists the countries according to an ITU code."

For the reasons given above, the combination of Kohashi and Yazolino, alone or with the Official Notice of the existence of the ITU, does not teach or suggest the system of claims 13 and 19, nor listing the countries according to an ITU code.

Claims 17, 25, and 26

Claims 17, 25, and 26 stand rejected under 35 USC §103(a) as being unpatentable over Kohashi in view of Yazolino. The Examiner also takes Official Notice regarding ITU and DLL. Applicant respectfully traverses the rejection.

Claim 17 depends from claim 13, and therefore includes all of the limitations thereof. As such, Claim 17 requires, "the tuner module has a country table listing a plurality of countries and multiple channel-to-frequency mapping tables that provide video standards and correlate channel numbers to corresponding frequencies for associated countries in the country table, the channel-to-frequency mapping tables being indexed by the country table so that selection of a country in the country table references an associated channel-to-frequency mapping table for the selected country." Claim 17 further specifies "an application program interface to expose functionality of the tuner module to an application program."

As described above, Kohashi and Yazolino do not describe, teach, or suggest the elements of claim 13, from which claim 17 depends. Further, the Office admits that the cited combination does not teach or suggest any API. The Office takes Official Notice of APIs. However, Applicant is not claiming that APIs in general are new; rather, Applicant is claiming a set of API's that "expose functionality of the tuner module to an application program."

Therefore, the combination of Kohashi, Yazolino and Official Notice that API's exist, fails to teach or suggest the features of claim 17. Therefore, it is respectfully requested that the §103 rejection of claim 17 be withdrawn.

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Claim 25 depends from claim 19, and therefore includes all of the limitations thereof. As such claim 25 requires, "multiple channel-to-frequency mapping tables correlating channel numbers to corresponding frequencies for associated countries in the country table, the channel-to-frequency mapping tables being indexed by the country table so that selection of a country in the country table references an associated channel-to-frequency mapping table for the selected country." Claim 25 further specifies "a computer software module that is dynamically accessible by an application program, the television tuning manager further comprising an application program interface to expose functionality of the television tuning manager to the application program."

As described above, Kohashi and Yazolino do not teach or suggest the elements of claim 19, nor the API of claim 25. Therefore, it is respectfully requested that the §103 rejection of claim 25 be withdrawn.

Claim 26 defines "an application program interface for a television tuning system, the application program interface being embodied on a computer-readable medium and having methods for performing the following functions:

setting a current TV channel;

retrieving the current TV channel;

setting a country code;

retrieving the country code;

setting a storage index for regional channel to frequency mappings; and retrieving the storage index.

Kohashi is a hardware based solution to a television tuning system. This is illustrated by Kohashi Fig. 1 which describes hardware components and memory.

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As such, Kohashi would not have contemplated a software tuning solution. Since the inherent purpose of an API is to interface between software and other components or programs, Kohashi, lacking software, wouldn't have contemplated an API. Thus, Kohashi could not even begin to teach a specific API for the television tuning system as claimed in claim 26.

The Office generally argues that Kohashi discloses methods for performing the functions recited in claim 26. The office cites various places in Kohashi as describing elements of claim 26. Applicant disagrees. While these references cumulatively disclose a hardware circuit that may set a TV channel, they do not disclose an API with various methods that may be called by a software application to perform the various functions.

Yazolino, being a cable based system, does not teach or suggest "setting a country code; retrieving the country code; or setting a storage index for regional channel to frequency mappings." Additionally, as discussed above Yazolino does not teach or suggest using an API.

In addition to failing to teach even APIs in general, the combination fails to teach or suggest the specific functions of the API of claim 26. Taking Official Notice that APIs generally, are old provides no assistance to the cited combination with respect to the claimed API for a television tuning system.

Conclusion

All pending claims 1-10 and 12-42 are in condition for allowance. Applicant respectfully requests reconsideration and prompt issuance of the subject application. If any issues remain that prevent issuance of this application, the Examiner is urged to contact the undersigned attorney before issuing a subsequent Action.

Respectfully Submitted,

Dated: Was lot By:

Paul W. Mitchell

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